039C

Page 1 of 7



OPIE

RAW SEQUENCE LISTING

DATE: 05/31/2002

PATENT APPLICATION: US/10/068,426

TIME: 08:31:48

Input Set : A:\Wyeth-gi.app

Output Set: N:\CRF3\05312002\J068426.raw

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 3 :110> APPLICANT: Shaw, Gray D.
         Sako, Dianne S.
 .1
         Kumar, Ravindra
 Ξ,
         Sullivan, Francis
        McDonagh, Tom
 4 <120 - TITLE OF INVENTION: Platlet Glycoprotein IB Alpha Fusion Polypeptides and
       Methods of Use Thereof
12 -: 130 - FILE REFERENCE: 22058-503
14 <140 > CURRENT APPLICATION NUMBER: 10/068,426
15 -: 141 - CURRENT FILING DATE: 2002-02-06
17 - 150 - PRIOR APPLICATION NUMBER: 60/266,838
18 - 151 - PRIOR FILING DATE: 2001-02-06
20 -: 160 > NUMBER OF SEQ ID NOS: 20
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50 Cys Glu Leu Thr Lys Leu Gln Val Asp Gly Thr Leu Pro Val Leu Gly
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59 Thr Ser Leu Pro Leu Gly Ala Leu Arg Gly Leu Gly Glu Leu Gln Glu
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62 Leu Tyr Leu Lys Gly Asn Glu Leu Lys Thr Leu Pro Pro Gly Leu Leu
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155

150

63 145

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Input Set : A:\Wyeth-gi.app

Output Set: N:\CRF3\05312002\J068426.raw

| - 65 Thr Pr - คด์ | o Thr | | .ys L .65 | .eu G | Glu : | Lys | | Ser 170 | Leu | Ala | Asn | Asn | Asn 175 | Leu |
|--|--|---|---|---|---|---|---|--|---|--|---|---|---|---|
| 68 Thr Gl | ı Leu | Pro A 180 | ala G | ly E | Leu : | | Asn 185 | Gly | Leu | Glu | Asn | Leu 190 | Asp | Thr |
| 1 Leu Le | ı Leu 195 | Gln G | Slu A | sn S | | Leu 200 | Tyr | Thr | Ile | Pro | Lys 205 | Gly | Phe | Phe |
| 74 Gly Se. | | Leu L | Leu P | | Phe 7 215 | Ala | Ph⊖ | Leu | | Gly 220 | Asn | Pro | Trp | Leu |
| 77 Cys Asi 78 225 | n Cys | Glu I | | .eu T !30 | Tyr . | Phe | Arı | | Trp 235 | Leu | Gln | Asp | Asrı | Ala 240 |
| 80 Glu Asi | val. | | 7al T 245 | rp I | .7s (| Gln | | Val 250 | Asp | Val | Lys | Ala | Met. 255 | Thr |
| 83 Ser As 84 | | Ala S 260 | Ser V | Tal O | Gln (| | Asp 265 | Asn | ser. | Asp | Lys | Phe 270 | Pro | Val |
| 86 Tyr Ly: | 275 | | | | | 280 | | | | | 285 | | | |
| 84 Thr Asj 40 29 |) | | | 2 | 295 | | | | | 300 | | | | |
| 92 Val Arc 93 305 | | | 3 | 1.0 | | | | | 315 | | | | | 320 |
| 95 His Th. 96 | | 3 | 25 | | | | | 330 | | | | | 335 | |
| 48 Val Phe 99 | | 340 | | | _ | | 345 | | | | | 350 | | |
| 101 Thr P: 102 | 355 | | | | | 360 | | | | | 365 | | | |
| 1/11/71/37 | | | | | | 37.5 | | | | | | | | |
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| 105 3° 107 Lys TI 108 385 | 70 nr Lys | Pro | Arg | G1u 390 | 375 Glu | Gln | Tyr | Asn | Ser 395 | 380 Thr | Tyr | Arg | Val | . Val |
| 105 3 107 Lys Tl 108 385 110 Ser Va | 70 nr Lys al Leu | Pro Thr | Arg Val 405 | Glu 390 Leu | 375 Glu His | Gln Gln | T;r Asp | Asn Trp 410 | Ser 395 Leu | 380 Thr Asn | Tyr | Arg Lys | Val Glu 415 | Val 400 Tyr |
| 105 3 107 Lys T1 108 385 110 Ser Va 111 113 Lys Cy 114 | 70 nr Lys al Leu ys Lys | Pro Thr Val 420 | Arg Val 405 Ser | Glu 390 Leu Asn | 375 Glu His Lys | Gln Gln Ala | Tyr Asp Leu 425 | Asn Trp 410 Pro | Ser 395 Leu Val | 380 Thr Asn Pro | Tyr Gly Ile | Arg Lys Glu 430 | Val Glu 415 Lys | Val 400 Tyr |
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| 105 3 107 Lys TI 108 385 110 Ser Va 111 113 Lys Ci 114 116 He Se 117 119 Pro Pi 120 49 122 Leu Va 123 465 125 Asn Gi | nr Lys al Leu ys Lys Lys 435 so Ser 60 al Lys | Pro Thr Val 420 Ala Arg Gly Pro | Arg Val 405 Ser Lys Glu Phe Glu 485 | Glu 390 Leu Asn Gly Glu Tyr 470 Asn | 375 Glu His Lys Gln Met 455 Pro | Gln Gln Ala Pro 440 Thr Ser Tyr | Tyr Asp Leu 425 Arg Lys Asp | Asn Trp 410 Pro Glu Asn Ile Thr 490 | Ser 395 Leu Val Pro Gln Ala 475 Thr | 380 Thr Asn Pro Gln Val 460 Val | Tyr Gly Ile Val 445 Ser Glu | Lys Glu 430 Tyr Leu Trp | Value | Val 400 Tyr Thr Leu Cys Ser 480 Asp |
| 105 3 107 Lys Tl 108 385 110 Ser Va 111 113 Lys Cl 114 116 He Se 117 119 Pro Pi 120 48 122 Leu Va 123 465 125 Asn Gl 126 128 Ser As | nr Lys al Leu ys Lys Lys 435 50 Ser al Lys ty Gln | Pro Thr Val 420 Ala Arg Gly Pro Ser 500 | Arg Val 405 Ser Lys Glu Phe Glu 485 Phe | Glu 390 Leu Asn Gly Glu Tyr 470 Asn | 375 Glu His Lys Gln Met 455 Pro Asn Leu | Gln Gln Ala Pro 440 Thr Ser Tyr | Tyr Asp Leu 425 Arg Lys Asp Lys Ser 505 | Asn Trp 410 Pro Glu Asn Ile Thr 490 Lys | Ser 395 Leu Val Pro Gln Ala 475 Thr | 380 Thr Asn Pro Gln Val 460 Val Pro | Tyr Gly Ile Val 445 Ser Glu Pro Val | Lys Glu 430 Tyr Leu Trp Val Asp 510 | Value | Val 400 Tyr Thr Leu Cys Ser 480 Asp |
| 105 3 107 Lys Tl 108 385 110 Ser Va 111 113 Lys Cl 114 116 He Se 117 119 Pro Pi 120 49 122 Leu Va 123 465 125 Asn Gl 126 128 Ser As 129 131 Arg Ti 132 | nr Lys al Leu ys Lys 435 to Ser al Lys al Lys Gln sp Gly | Pro Thr Val 420 Ala Arg Gly Pro Ser 500 Gln | Arg Val 405 Ser Lys Glu Phe Glu 485 Phe Gly | Glu 390 Leu Asn Gly Glu Tyr 470 Asn Phe | 375 Glu His Lys Gln Met 455 Pro Asn Leu Val | Gln Gln Ala Pro 440 Thr Ser Tyr Tyr Phe 520 | Tyr Asp Leu 425 Arg Lys Asp Lys Ser 505 Ser | Asn Trp 410 Pro Glu Asn Ile Thr 490 Lys | Ser 395 Leu Val Pro Gln Ala 475 Thr Leu Ser | 380 Thr Asn Pro Gln Val 460 Val Pro Thr | Tyr Gly Ile Val 445 Ser Glu Pro Val Met 525 | Lys Glu 430 Tyr Leu Trp Val Asp 510 His | Value | Val 400 Tyr Thr Leu Cys Ser 480 Asp |
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Input Set A:\Wyeth-gi.app

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142 <211 > LENGIH: 544 143 (212 - TYPE: PRT 144 <213 - ORGANISM: Homo sapiens 146 < 220 < FEATURE:14" <221 - NAME/KEY: DOMAIN 148 <222 · LOCATION: (1)..(544) 149 <223 - OTHER INFORMATION: GP1b302/2A-Iq 151 <400 · SEQUENCE: 2 152 Met. Pro Leu Leu Leu Leu Leu Leu Leu Pro Ser Pro Leu His Pro 153 1 5 195 His Pro Ile Cys Glu Val Ser Lys Val Ala Ser His Leu Glu Val Asn 156 20 158 Cys Asp Lys Arg Ash Leu Thr Ala Leu Pro Pro Asp Leu Pro Lys Asp 154 35 40 161 Thr Thr Ile Leu His Leu Ser Glu Asn Leu Leu Tyr Thr Phe Ser Leu 16.2 50 55 164 Ala Thr Leu Met. Pro Tyr Thr Arg Leu Thr Gln Leu Asn Leu Asp Arg 7.0 167 Cys Glu Leu Thr Lys Leu Gln Val Asp Gly Thr Leu Pro Val Leu Gly 90 85 170 Thr Leu Asp Leu Ser His Ash Gln Leu Gln Ser Leu Pro Leu Leu Gly 100 105 173 Gln Thr Leu Pro Ala Leu Thr Val Leu Asp Val Ser Phe Asn Arg Leu 115 120 125 176 Thr Ser Leu Pro Leu Gly Ala Leu Arg Gly Leu Gly Glu Leu Gln Glu 135 140179 Leu Tyr Leu Lys Gly Asn Glu Leu Lys Thr Leu Pro Pro Gly Leu Leu 150 155 182 Thr Pro Thr Pro Lys Leu Glu Lys Leu Ser Leu Ala Asn Asn Asn Leu 165 170 185 Thr Glu Leu Pro Ala Gly Leu Leu Asn Gly Leu Glu Asn Leu Asp Thr 185 180 188 Lou Leu Leu Gln Glu Asn Ser Leu Tyr Thr Ile Pro Lys Gly Phe Phe 200 189 195 191 Gly Ser His Leu Leu Pro Phe Ala Phe Leu His Gly Asn Pro Trp Leu 192 - 210215 194 Cys Asn Cys Glu Ile Leu Tyr Phe Arg Arg Trp Leu Gln Asp Asn Ala 197 Glu Asn Val Tyr Val Trp Lys Gln Gly Val Asp Val Lys Ala Met Thr 250 245 200 Ser Asn Val Ala Ser Val Gln Cys Asp Asn Ser Asp Lys Phe Pro Val 265 203 Tyr Lys Tyr Pro Gly Lys Gly Cys Pro Thr Leu Gly Asp Glu Gly Asp 204 275 280 206 Thr Asp Leu Tyr Asp Tyr Tyr Pro Glu Glu Asp Thr Glu Gly Asp Lys 295 209 Val Ala Ala Thr Ala Thr Val Val Lys Phe Pro Thr Lys Ala Arg Pro 310 212 His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Leu Gly Ala Pro Ser

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| .:15 | Val | Phe | Leu | 2he | Pro | Pro | Lys | Pro | | Asp | Thr | Leu | Met | | Ser | Arg |
| 216 | | _ | ~) | 340 | 1 | _ | | | 345 | _ | 1 | | | 350 | | D |
| 218 | ınr | Pro | 355 | Va l. | 1nr | uys | vai | 360 | val | Asp | vai | Ser | 365 | GIU | ASP | PIO |
| | Glu | Val | | Phe | Acn | Trn | Tur | | Asp | G1.7 | Va l | Glu | | His | Asn | Ala |
| 222 | 'J L U | 370 | Lys | £ 114; | USII | 111 | 375 | V 12 1 | пэр | OI. | vai | 380 | vai | 1115 | 11511 | 111.4 |
| 224 | LZS | | Lvs | Pro | Ara | Glu | | Gln | T∵r | Asn | Ser | | Tvr | Arq | Val | Val |
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| 230 | Lys | ·'Ys | Lys | Val. | ser | Asn | Lys | Ala | | Pro | Val | Pro | Ile | Glu | Lys | Thr |
| 231 | | | | 420 | | | | | 425 | | | | | 430 | | |
| | He | Ser | _ | Ala | Lys | Gly | Gln | | Arg | Glu | Pro | Gln | | Tyr | Thr | Leu |
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| 2336 237 | Pro | Pro 450 | Ser | Arg | GLU | GLU | Met 455 | Thr | Lys | Asn | GIn | Val 460 | Ser | Leu | inr | Cys |
| | Leau | | Lys | Gly | Phe | Tyr | | Ser | Asp | Ile | Ala | | Glu | Trp | Glu | Ser |
| | 1 o 5 | | 1 | • | | 470 | | | - | | 475 | | | - | | 480 |
| 242 | Asn | G17 | Gln | Pro | $\operatorname{GL} u$ | Asn | Asn | Tyr | Lys | Thr | Thr | Pro | Pro | Val | Leu | Asp |
| 243 | | | | | 485 | | | | | 490 | | | | | 495 | |
| | Ser | Asp | Gly | ser | Phe | Phe | Leu | Tyr | | Lys | Leu | Thr | Val | _ | Lys | ser |
| 246 | | | _ | 5(10) | | | | | 505 | _ | _ | | | 510 | - 1 | - 1 |
| 248 248 | Arg | Trp | G1n 515 | Gln | Gly | Asn | Val | Phe 520 | Ser | Суѕ | Ser | Val | Met 525 | His | Glu | Ala |
| | Leu | His | | His | Tyr | Thr | Gln | | Ser | Leu | Ser | Leu | | Pro | Glv | Lvs |
| 252 | | 530 | | | - 1 - | | 535 | -1- | | | | 540 | | | 1 | - 1 - |
| | -1210 |) · SI | EQ II | ON C | : 3 | | | | | | | | | | | |
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| | | | | ISM: | Homo | sap | piens | 3 | | | | | | | | |
| | -:22(| | | | | | | | | | | | | | | |
| | | | | KEY: | | | | | | | | | | | | |
| | | | | : NOI INFO | | | | 1201 |) /1 🗸 - | Ta | | | | | | |
| | | | | INE (| | LICIN. | . GP. | LDSU | 2/4A | 19 | | | | | | |
| | | | | Leu | | Leu | Len | T.4311 | Len | Len | Pro | Ser | Pro | Leu | His | Pro |
| 270 | 1 | 110 | Lica | 110-11 | 5 | Lea | Dea | Lica | Dr. u | 10 | 110 | 0.71 | 113 | 100 | 15 | |
| | | Pro | Ile | Cys | | Val | Ser | Lvs | Val | | Ser | His | Leu | Glu | | Asn |
| 273 | | | | 20 | | | | • | 25 | | | | | 30 | | |
| 275 | Cys | Asp | Lys | Arg | Asn | Leu | Thr | Ala | Leu | Pro | Pro | Asp | Leu | Pro | Lys | Asp |
| 276 | | | 35 | | | | | 40 | | | | | 45 | | | |
| | Thr | Thr | Ile | Leu | His | Leu | | Glu | Asn | Leu | Leu | | Thr | Phe | Ser | Leu |
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| | | Thr | Leu | Met | Pro | | Thr | Arg | Leu | Thr | | Leu | Asn | Leu | Asp | |
| 282 | 65 | <i>(</i> 21 | Loui | Thr | T | 70 | Clr | Wal | Nan | C1 | 75 | τ ου | Dro | Wal | Lau | 8(1 |
| 284 285 | C∮S | GIU | rea | Thr | Lys 85 | reu | GIII | ναI | ASP | 90 | 1111 | Leu | PLO | val | 95 | 91) |
| | Thr | Len | Asn | Leu | | His | Asn | Gln | Leu | | Ser | Leu | Pro | Leu | | Glv |
| | | Lcu | | | | | | | | | | | 0 | | | 1 |

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Output Set: N:\CRF3\05312002\J068426.raw

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| 244 | | 130 | | | | | 135 | | | | | 140 | | | | |
| | | Tyr | Leu | Lys | Gly | | Glu | Leu | Lys | Thr | | Pro | Pro | Gly | Leu | |
| 297 | 1.15 | D | Tr. 1 | D | . | 150 | 21 | r | T | G | 155 | | | | | 160 |
| 299 300 | ınr | Pro | Inr | Pro | 165 | Leu | LUدا | Lys | Leu | 5er 170 | Leu | Ala | ASI | ASI | 175 | Leu |
| - | Thr | Glu | Lou | Dro | | C157 | 5.00 | Lan | Aan | | Lau | alu | Aen | LOU | | Thr |
| 303 | 1111 | GIU | LEU | 180 | Ala | GIY | Leu | Lea | 185 | эту | Lea | GIU | ASII | 190 | изр | 1111 |
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| 306 | | 20. | 195 | 3.211 | 514 | | 002 | 200 | - ; - | **** | | | 205 | | | |
| 308 | Gly | Ser | Hıs | Leu | Leu | Pro | Phe | Ala | Phe | Leu | His | Gly | Asn | Pro | Trp | Leu |
| 309 | • | 210 | | | | | 215 | | | | | 220 | | | | |
| 311 | Cys | Asn | Cys | Glu | 11e | Leu | Tyr | Phe | Arg | Arg | Trp | Leu | Gln | Asp | Asn | Ala |
| 312 | 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| 314 | Glu | Asn | Val | Tyr | | qr1 | L∵s | Gln | Val | | Asp | Val | Lys | Ala | | Thr |
| 315 | | | | | 245 | | | | | 250 | | | | | 255 | _ |
| | Ser | Asn | Val | | Ser | Val | Gin | Cys | _ | Asn | Ser | Asp | Lys | | Pro | Val |
| 31.8 | T | Ť = | · · · · · · | 260 | a | r | .71 | .7 | 265 | Th. | т | .21 | ۸ | 270 | 21 | 7 .~~ |
| | Tyr | Lys | 17r 275 | Pro | GLY | Lÿs | σΤХ | 280 | Pro | Inr | Leu | GIY | 285 | (3 I II | GIY | ASP |
| 321 | Thr | Asp | | Turn | A cr | Tur | Tur | | Clu | c1n | λan | Thr | | c1 | Nen | Luc |
| 324 | 1111 | 290 | nea | 1 / 1 | ust | 1) 1 | 295 | F1.0 | Gitu | GLU | изр | 300 | ·31.u | נדני | vsh | цјз |
| | Val | Ala | Ala | Thr | Ala | Гhr | | Val | Lvs | Phe | Pro | | Lys | Ala | Arq | Pro |
| | 305 | | | | | 310 | | | • | | 315 | | 1 | | | 320 |
| 329 | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Ala | Leu | Gly | Ala | Pro | Ser |
| 330 | | | | | 325 | | | | | 330 | | | | | 335 | |
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| | Thr | Pro | | Val | Thr | €Zs | Val | | Val | Asp | Val | Ser | | Glu | Asp | Pro |
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| 339 339 | (£Lu | Val. 370 | Lys | Pne | Asn | Trp | 375 | vaı | Asp | стх | vaı | 380 | val | HIS | Asn | Ата |
| | Tre | Thr | Tire | Dro | Λra | clu | | Gln | Tur | Aen | Sar | | Tur | Δησ | Val | Val |
| | 385 | 1 1111 | د ړ ت | FIO | A1. 9 | 390 | V3.1. U | GIII | 171 | ASII | 395 | 1111 | 111 | Arg | Val | 4()0 |
| | | Val | Leu | Thr | Val | | His | Gln | asp | Trp | | Asn | Glv | Lvs | Glu | |
| 345 | | | 23 04 | | 405 | 22 () | | J 2.11 | t | 410 | | | 1 | 1 | 415 | |
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| 348 | _ | _ | _ | 420 | | | _ | | 425 | | | | | 430 | | |
| | Ile | Ser | $L_{\lambda}^{*}S$ | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln | | Tyr | Thr | Leu |
| 351 | | | 435 | | | | | 440 | | | | | 445 | | | |
| | bro | Pro | ser | Arg | Glu | Glu | | Thr | Lys | Asn | Gln | | Ser | Leu | Thr | Cys |
| 354 | | 450 | - | a : | 5 .1 | | 455 | | | - 2 | | 460 | <i>a</i> : | ~ | a 2 | a - |
| | | Val | Lys | Gly | Phe | | Pro | Ser | Asp | Пе | | Val | G1u | 1 rp | G_u | |
| | 465 | C1., | Cla | Dro | (21.) | 470 | λαη | Tree | Luc | Thr | 475 | Dro | Dro | V = 1 | Lou | 480 |
| 360 | ASII | Gly | 0111 | PIO | 485 | ASII | ASII | тАг | LYS | 490 | 1111 | PIO | PIO | val | 495 | ASP |
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